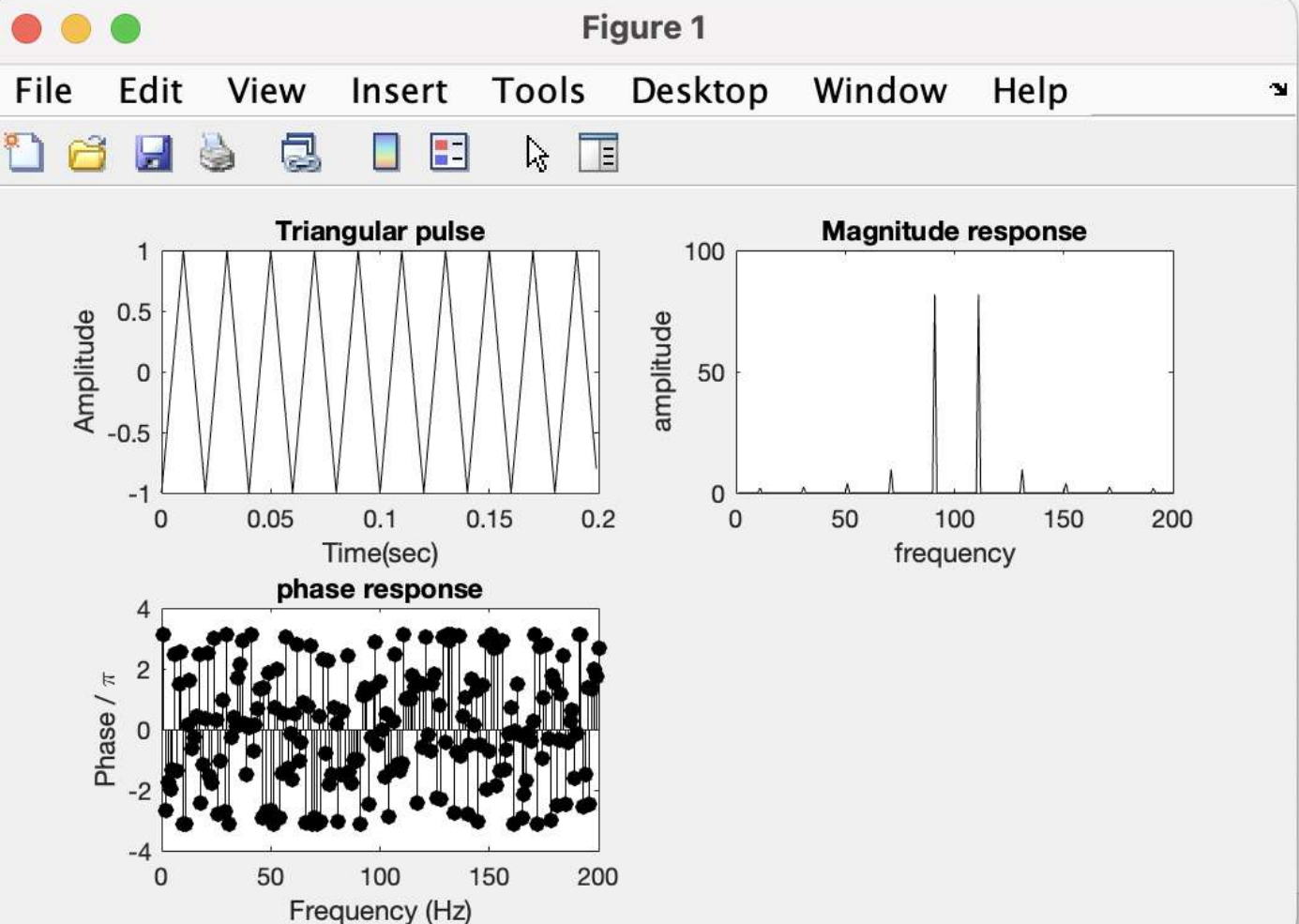


```

1  T = 10*(1/50);
2  fs = 1000;
3  t = 0:1/fs:T-1/fs;
4  x = sawtooth(2*pi*50*t, 0.5);
5  subplot(2,2,1); plot(t,x,'black');
6  xlabel('Time(sec)'); ylabel('Amplitude');
7  title('Triangular pulse')
8  y=fft(x);
9  subplot(2,2,2);
10 plot(fftshift(abs(y)), 'black');
11 xlabel('frequency'); ylabel('amplitude'); title('Magnitude response');
12 theta = angle(y); subplot(2,2,3);
13 stem(theta, 'filled', 'color', 'black');
14 xlabel("Frequency (Hz)"); ylabel("Phase / \pi");
15 title('phase response')

```



Editor - /Users/pavankumarcbanasode/Documents/MATLAB/expt3_b.m

expt3_a.m x expt3_b.m x audio_processing.m x expt4_a.m x +

```
1  clc; clear all; close all;
2  T = 10*(1/50);
3  fs = 1000;
4  t = -5:0.1:5;
5  x = t==0;
6  subplot(2,2,1); plot(t,x,'black');
7  xlabel('Time(sec)'); ylabel('Amplitude');
8  title('Impulse signal')
9  y=fft(x);
10 subplot(2,2,2);
11 plot(fftshift(abs(y)), 'black');
12 xlabel('frequency'); ylabel('amplitude'); title('Magnititude response');
13 theta = angle(y); subplot(2,2,3);
14 stem(theta, 'color', 'black');
15 xlabel("Frequency (Hz)"); ylabel("Phase / \pi");
16 title('phase response')
```



Figure 1

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